Canon

MACRO ZOOM LENS

C10×12 Fluorite

12–120mm 1:2.2

16mm MOVIE CAMERA LENS

C10x12 Fluorite

1mm Close-up, 10-time Zooming, Excellent Color Performance

Here is a lens that rivals the limits of your imagination, at a price that rivals our rivals. The truly remarkable thing about the Canon C10x12F is not only how much more quality and creative flexibility it offers you, but how little you have to spend to get it. The Canon C10x12F offers sharpness you never thought possible from a variable focal length lens, sharpness that comes from 37 years of optical experience. Being so finicky, we even make our own optical glass and grow our own Fluorite Crystals. So we know that from beginning to end, our lenses will live up to our standard of quality and to yours.

The Canon C10x12F Macro Zoom Lens . . . a 16mm version of our Academy Award winning K5x25 Macro Zoom Lens for 35mm movie cameras, incorporates artificial fluorite to practically eliminate chromatic aberrations and reduce the secondary spectrum to near theoretical limits. We also include unique capabilities that will change your mind about the film images you can create. The Canon C10x12F Macro Zoom Lens, a reasonably priced, light weight, high quality zoom lens that lets you focus down to 1mm and manipulate foreground and background in ways that used to be considered impossible!

The following photos are actual shots taken with the C10x12F, which clearly display the excellence of this lens.

Super Close-up Photography

f=12mm Object distance from front lens vertex = 1mm

f=12mm Object distance from front lens vertex = 10cm

By using the macro ring, you can focus as close as 1mm from its front lens vertex without diopters or accessories.

10-time Zooming

f=12mm

f=40mm

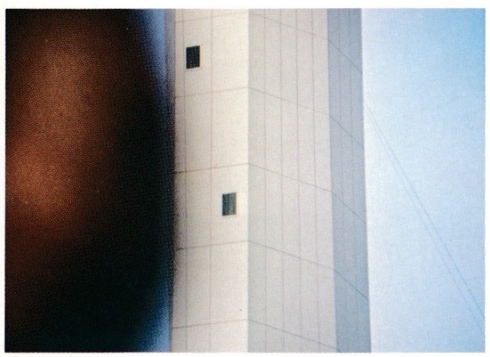
f=65mm

f=120mm

Multi-point Focus Photography

f=12mm

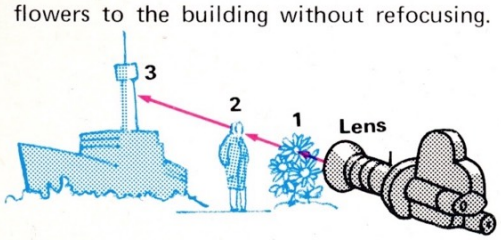
f=65mm



f=120mm

When photographing several objects at different distances, sharp definition can be obtained of each object at each point by operating the macro ring and zoom ring.

The above example is when shooting two objects at distances of 30cm (11-13/16") and ∞, with an object in-between at 5m(16'). Namely, the focused point, in accordance to focal length, moves from the flowers to the building without refocusing.



Background and Visual Depth

photo A f=12mm

photo B f=120mm

Photo B is what is obtained when an ordinary 120mm telephoto lens is used. The close-up, in essence, has no background, so there is no way for viewers to be shown where the flowers and the cigarettes are or what is happening behind them.

Photo A is what is obtained when the C10x12F is used at 12mm wide-angle position, with the macro mechanism. The objects are as close as before, but there is a richness of background detail for viewers to see.

SPECIFICATIONS

Optical

Application: For 16mm movie cameras
Range of Focal Length: 12–120mm
Maximum Relative Aperture: 1 : 2.2
Zoom Ratio: 10x
Image Format: 10.3 x 7.5mm(0.404" x 0.295")
Diagonal 12.7mmϕ(0.5")
Angular Field of View: Wide 46.9° x 34.6°
Tele 4.7° x 3.5°
Minimum Object Distance: 1.5m (4'11.0") from focal plane

Using Macro Ring

Focal Length	12mm	50mm	120mm
Object Distance	1mm	450mm	1040mm

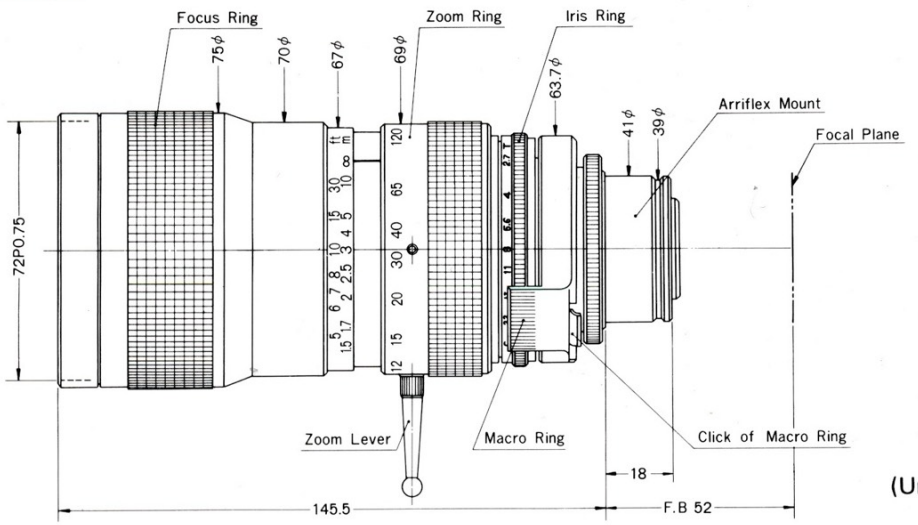
Object Dimensions at Minimum Object Distance:
Wide 105 x 77cm (3'5.3" x 2'6.3")
Tele 10.7 x 7.8cm (4.21" x 3.07")
Macro 50.5 x 36.2mm (1.98" x 1.42") at 1mm from front lens vertex.

Mechanical

Mechanical Back Focal Distance: CA-1: 48.00mm
Arriflex: 52.00mm
Arriflex Bayonet: 52.00mm
C: 17.526mm
Tolerance of Mechanical Back Focal Distance:
Less than ±0.01mm
Zoom Control: Rotating ring with lever
Lever position is changeable.
Direction: Clockwise for telephoto*
Torque: 800g-cm
Rotational Angle: 120°
Focus Control: Rotating ring
Direction; Clockwise for infinity*
Torque; 800g-cm
Rotational Angle; 100.4°
Iris Control: Rotating ring
Direction; Clockwise for opening*
Torque; 800g-cm
Rotational Angle; 101°
F/stop: 2.2, 2.8, 4, 5.6, 8, 11, 16, 22, Close
T/stop: 2.7, 4, 5.6, 8, 11, 16, 22
Macro Control: Rotating ring
Direction; Counterclockwise for macro*
Torque; 1200g-cm
Rotational Angle; 90°
Front Thread: 72mm PO.75
Weight: Approx. 1 kg(2.2 lbs.)
Size: 75mmϕ x169.4mm (CA-1 mount)

* As viewed from the front of the lens

DIMENSIONS



(Unit: mm)

Specifications, composition and dimensions are subject to alterations.

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